

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Johnnie R. Roberts et al.

Application No.: 09/916611

Confirmation No.: 8709

Filed: July 27, 2001

Art Unit: 1616

For: MANUFACTURE AND USE OF A
HERBICIDE FORMULATION

Examiner: A. N. Pryor

37 CFR 1.132 DECLARATION

1. I am one of the inventors of the above referenced application. I am employed by Helena Chemical Company as a Manager of the Product Development Laboratory in Memphis, Tennessee. A copy of my most recent Curriculum Vitae is attached as Appendix A. In view of the above qualifications, I consider myself an expert in the field of agricultural compositions.

2. I have reviewed the office action which was mailed on November 30, 2004. The examiner has rejected the claims based on composition of AF-300. I have also reviewed and am familiar with AF-300 along with the above identified application.

3. The composition of AF-300 is found on their Material Safety Data Sheet ("MSDS"). MSDS sheet, dated January 2002 (see Appendix 1).

This MSDS sheet shows the following composition:

2,4-Dichlorophenoxy acetic acid at 300 grams per liter
Synthetic ethoxylated alcohol at 50%
Solvent 400 at 235 grams per liter.

4. Since the MSDS and other literature describe this product as containing kerosene (see page 3 under the heading of the subheading of proper Shipping under the heading of Storage and Transport), it is assumed that Solvent 400 is kerosene or contains a significant level of kerosene. The Solvent 400 is present in 235 grams per liter.

5. The use of kerosene in this large amount (Solvent 400 is 235 grams per liter) significantly affects the benefits of the inventive formulation.

A. Kerosene is flammable and therefore poses several problems such as with shipping and handling.

B. Kerosene has a very noticeable and objectionable odor. Because 2,4-D esters are frequently applied in conjunction with kerosene, this would be a liability as compared with the inventive formulations which exhibit virtually no odor.

C. Kerosene poses a potential inhalation hazard. (See AF-300 MSDS sheet under Acute – Inhaled hazards).

D. Kerosene will likely cause deterioration of spray application equipment.

6. Further evidence that kerosene causes problems is that Agricrop Affray 300 Herbicide's formulation was changed February 3, 2003 (see Appendix 2). According to the new February 3, 2003 MSDS, Agricrop's AF 300 herbicide, has replaced the kerosene (Solvent 400) with Solvesso 150. Therefore, the new formulation is now non-flammable because of the replacement of kerosene with Solvesso 150. Solvesso 150 is a solvent that is naphtha, petroleum, heavy aromatic RN: 64742-94-5. This is further evidence of the negatives of kerosene.

7. For the above stated reasons, I believe that significant amounts of kerosene (Solvent 400 at 235 grams per liter) would have a substantial negative impact on the claimed formulations.

8. I hereby declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

02-03-05
Date


Johnnie R. Roberts

APPENDIX 1



Material Safety Data Sheet

Page: 1 of 5

Infosafe No.	NU003	Issue Date : January 2002	ISSUED by NUFARM
--------------	-------	---------------------------	------------------

Product Name : AF300 Herbicide

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
Address 103-105 Pipe Road Laverton North
 Victoria 3026 Australia
Emergency Tel. 24hr 1800 033 498
Tel/Fax Tel: (03) 9282-1000 Fax: (03) 9282-1001
Other Information

IDENTIFICATION

Product Code 0027
Product Name AF300 Herbicide
Proper Shipping Name FLAMMABLE LIQUIDS, N.O.S. - (2,4-dichlorophenoxyacetic acid/kerosine)
UN Number 1993
DG Class 3
Packing Group III
Hazchem Code 2Y
Poisons Schedule S5
Product Use For the integrated control of Groundsel bush, Mother-of-millions, Noogoora burr, Bathurst burr and water hyacinth and other weeds as listed in the Directions for Use Table.

Physical Data

Appearance Light straw coloured limid liquid with typical hydrocarbon odour.
Melting Point <0°C
Boiling Point >160°C (for solvent)
Vapour Pressure Active ingredient considered non-volatile
Specific Gravity 1.03 - 1.05 (1.044)
Flash Point 40°C
Flamm. Limit LEL No information available

Other Properties

Volatile Component ~23%
Autoignition Temp. No information available
Vapour Density No information available
Form Liquid
Other Information Emulsifies in water.

Ingredients

Ingredients	Name	CAS	Proportion
	2,4-Dichlorophenoxy acetic acid	94-75-7	300 g/L
	Synthetic ethoxylated alcohol	68439-46-3	50 %
	Solvent 400		235 g/L

HEALTH HAZARD INFORMATION**Health Effects**

Acute - Swallowed A significant hazard exists if the concentrate is accidentally swallowed. Absorption of relatively large amounts of 2,4-D can produce headaches, nausea, lethargy, motor weakness and inco-ordination. The concentrate is considered harmful if swallowed, when classified according to the Worksafe Criteria.



Material Safety Data Sheet

Page: 2 of 5

Infosafe No.	NU003	Issue Date:	January 2002	ISSUED by	NUFARM
--------------	-------	-------------	--------------	-----------	--------

Product Name : AF300 Herbicide

Classified as hazardous according to criteria of NOHSC

Acute - Eye	The concentrate is irritating to the eyes. No permanent effects on the eyes is expected from a single exposure
Acute - Skin	The concentrate is irritating to the skin. Prolonged or repeated exposure may cause defatting of the skin which could lead to secondary dermatitis. Some absorption of 2,4-D acid is possible if contact with the concentrate is prolonged.
Acute - Inhaled	Inhalation of solvent may lead to headache or nausea if exposure is prolonged. Avoid breathing spray mists.
Chronic	Chronic Over Exposure: Repeated absorption of relatively large doses of 2,4-D presents a risk to the liver and kidneys.
Other Information	If poisoning occurs, contact a Doctor or Poisons Information Centre 13 11 26

First Aid

Swallowed	If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. The above first aid instructions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poisons Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 50ml) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.
Skin	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
Inhaled	Remove victim to fresh air until recovered.

Advice to Doctor

Advice to Doctor	Treat symptomatically. Aspiration of vomitus may lead to pulmonary pneumonitis, which may be serious, especially in young children.
------------------	--

Other Health Hazard Information**PRECAUTIONS FOR USE**

Exposure Limits	No exposure limits have been set for this product, however, an exposure limit has been set for 2,4-D acid (solid) at 10 mg/m3
Eng. Controls	Handle the concentrate in a well ventilated space. Natural ventilation is adequate, although a local exhaust should be provided if material is handled in confined spaces.

Personal Protection

Protective Equip.	Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray wear PVC or rubber apron, elbow-length PVC gloves and face shield. When using the prepared spray wear face shield. If product on skin, immediately wash area with soap and water. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.
-------------------	---

Flammability



Material Safety Data Sheet

Page: 3 of 5

Infosafe No. NU003 Issue Date: January 2002 ISSUED by NUFARM
Product Name: AF300 Herbicide

Classified as hazardous according to criteria of NOHSC

Fire Hazards Flammable 40°C (Abel L.C.) for solvent present.

SAFE HANDLING INFORMATION

Storage and Transport

Storage and Transport Details:

Proper Shipping Name:

Flammable liquid, n.o.s. (2,4-dichlorophenoxyacetic acid)

UN No. 1993

Class: 3

Packaging Group: III

Hazchem: 2Y

FLAMMABLE

Avoid all sources of ignition including static electricity buildup during transfer operations.

Store in original container, tightly sealed, in a safe place away from seeds, fungicidal and insecticidal sprays or fertilizers.

Proper Shipping Name

FLAMMABLE LIQUIDS, N.O.S. - (2,4-dichlorophenoxyacetic acid/kerosine)

EPG Number

3A1

Spills and Disposal

Spills & Disposal

Contain spill and absorb with sand or proprietary absorbent (vermiculite).

Prevent from entering drains, waterways or sewers.

Collect in sealed open top containers for disposal.

Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

Fire/Explosion Hazard

Fire/Explos. Hazard

Extinguishing Media: Water fog, dry chemical, foam, CO2.

Special Fire Fighting Procedures: Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Keep upwind.

Unusual Fire and Exposure Hazard: May emit toxic fumes of hydrogen chloride, phosgene and carbon monoxide if material is involved in fires or subjected to extreme heat.

Hazardous Reaction

Store away from oxidising agents, may react violently with strong oxidising agents.

Polymerisation is not possible.

Hazchem Code

2Y

OTHER INFORMATION



Material Safety Data Sheet

Page: 4 of 5

Infosafe No.	NU003	Issue Date:	January 2002	ISSUED by	NUFARM
Product Name: AF300 Herbicide					

Classified as hazardous according to criteria of NOHSC

Toxicology	<p>2,4-D (2,4-dichlorophenoxyacetic acid)</p> <p>LD50 (oral, rat): 699mg/Kg</p> <p>LD50 (dermal, rabbit): >2,000mg/Kg</p> <p>LC50 (inhalation, rat): >1.79mg/L (4hr) (maximum attainable concentration)</p> <p>Not toxic to bees</p> <p>LC50 (rainbow trout): ~100mg/L</p> <p>LC50 (daphnia): 1.4mg/L</p> <p>LC50 (mallard duck): >5,000mg/Kg diet</p> <p>In trials using 2,4-D as a drug, studies on volunteers have shown that doses of between 5 and 36mg/Kg body weight do not cause any acute toxic effects. Formulated 2,4-D products can be absorbed by ingestion, inhalation (spray mist) and through the skin. Studies of users (sprayers) has shown that absorption through the skin is the most common route. When used with good agricultural spraying practice and good personal hygiene, absorption of 2,4-D is very low.</p> <p>2,4-D does not accumulate in the body; a single dose of 2,4-D is rapidly excreted (in a few days), mainly in the urine.</p> <p>The Australian Acceptable Daily Intake (ADI) of 2,4-D for a human is 0.01mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.0mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Aged Care, 'ADI List', TGA, August 2001).</p>
Environ. Protection	<p>2,4-D products do not appear to pose any threat to birds.</p> <p>2,4-D products do not appear to pose any threat to fish other than in very high concentrations.</p> <p>DO NOT spray in high winds. Do not contaminate dams, waterways or streams with this product or used containers. DO NOT use this container for any other purpose. After use, triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.</p> <p>Equipment that has been used for this product should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot, soapy water or 1% ammonia solution, followed by several clear water rinses.</p> <p>Do not use on or in situations where damage to susceptible crop plants such as cotton, tobacco, tomatoes, flowers, vines fruit trees or other susceptible crop plants may result from direct application or spray drift.</p>



Material Safety Data Sheet

Page: 5 of 5

Infosafe No. NU003	Issue Date: January 2002	ISSUED by NUFARM
--------------------	--------------------------	------------------

Product Name: AF300 Herbicide

Classified as hazardous according to criteria of NOHSC

Pkg. & Labelling	<p>WARNING</p> <p>KEEP OUT OF REACH OF CHILDREN</p> <p>READ SAFETY DIRECTIONS BEFORE OPENING</p> <p>Not to be used for any purpose or in any manner contrary to the label unless authorised under appropriate legislation.</p> <p>The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous:</p> <p>Risk Phrases:</p> <p>R10 Flammable</p> <p>R22 Harmful if swallowed</p> <p>R36/37/38 Irritating to eyes, respiratory system and skin</p> <p>R65 Harmful: may cause lung damage if swallowed</p> <p>Safety Phrases:</p> <p>S2 Keep out of reach of children</p> <p>S23 Do not breathe vapour</p> <p>S24 Avoid contact with skin</p> <p>S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice</p> <p>S36/37 Wear suitable protective clothing and gloves</p> <p>S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. Refer to First Aid section.</p>
------------------	---

CONTACT POINT

Contact	<p>Normal Hours: Mr Volker Maier</p> <p>After Hours: Shift Supervisor</p> <p>...End Of MSDS...</p>	<p>Phone: (03) 9282 1000</p> <p>Phone: 1800 033 498</p>
---------	--	---

APPENDIX 2



Product: AFFRAY 300 (Previously AF 300)

New non flammable formulation now available in new easy to pour 5 litre plastic bottles

[Label](#)

[MSDS](#)

[Mother of Millions - NRM facts sheet](#)

[Mother of Millions - Flower heads](#)

[Mother of Millions - General photograph](#)

[Water Hyacinth - NRM facts sheet](#)

[home](#) [about us](#) [products](#) [orders](#) [links](#) [contact](#)
last updated: 9/11/2004 © 2002 Agricrop Pty Ltd

Agricrop - Affray 300

Page 2 of 2

http://www.agricrop.com.au/prod_affray300.htm

1/7/2005



ABN 100 84 473 309

EMERGENCY TELEPHONE
(All Hours) 1800 033 111

MATERIAL SAFETY DATA SHEET

AGRICROP AFFRAY 300 HERBICIDE

Agricrop Pty Ltd
1569 Wynnum Road
Tingalpa, Queensland 4173

Telephone: 07 3348 4113 - Facsimile: 07 3348 2702

Hazardous according to criteria of Worksafe Australia.

IDENTIFICATION

Product Name: Agricrop AFFRAY 300 Herbicide

Other Names:

UN No:

Hazchem Code:

Dangerous Goods Class:

Sub Risk Class: No Subsidiary Risk.

SUSDP: S5 (Fed) S5 (NSW) S% (Vic) S% (WA) S5 (Qld) S5 (Tas) S5 (NT)

Packaging Group:

EPG: None allocated.

Poison Schedule: Not Scheduled

Product Type: Selective herbicide. Emulsifiable Concentrate

Uses: For the integrated control of Groundsel Bush, Mother-of-Millions, Noogoora Burr, Bathurst Burr, Water Hyacinth and other weeds.

Physical appearance & Properties:

Appearance & Odour: Light straw coloured liquid with typical hydrocarbon

Form: Liquid

Melting/softening point: -20°C (for solvent)

Boiling point: > 170°C (for solvent)

Vapour pressure: Active ingredient considered non-volatile.

Volatile materials: Approx. 30%

Flashpoint: 70°C

Flammability Limits: No information available

Autoignition Temp.: <450°C

Specific gravity: 1.068

Solubility in water: Insoluble in water, emulsifies in water

Other Properties: Emulsifiers in water

Ingredients:

Chemical entity	CAS No	Proportion
2,4-dichlorophenoxyacetic acid	94-75-7	300 g/L
Solvesso 150	64742-94-5	259 g/L
Synthetic ethoxylate alcohol	68439-46-3	50% w/v

Agricrop Pty Ltd.
ABN 100 84 473 309

1 of 5

Product: Agricrop AFFRAY 300 Herbicide
Issued: 03 February 2003



ABN 100 84 473 309

EMERGENCY TELEPHONE
(All Hours) 1800 033 111

MATERIAL SAFETY DATA SHEET

II HEALTH HAZARD DATA

Acute Effects:

Swallowed: A significant hazard exists if the concentrate is accidentally swallowed. Absorption of relatively large amounts of 2,4-D can produce headaches, nausea, lethargy, motor weakness and inco-ordination.

The concentrate is considered harmful if swallowed, when classified according to the Worksafe Criteria.

Eye: The concentrate is irritating to the eyes. No permanent effects on the eyes is expected from a single exposure.

Skin: The concentrate is irritating to the skin. Prolonged or repeated exposure may cause defatting of the skin that could lead to secondary dermatitis. Some absorption of 2,4-D acid is possible if contact with the concentrate is prolonged.

Inhaled: Inhalation of the solvent may lead to headache or nausea if exposure is prolonged. Avoid breathing spray mist.

Primary route of exposure is inhalation and skin and eye contact.

Chronic Effects:

Chronic Over Exposure: Repeated absorption of relatively large doses of 2,4-D presents a risk to the liver and kidneys.

Other Health Hazard Information:

If poisoning occurs, contact a Doctor or Poisons Information Centre 13 11 26.

First Aid:

Swallowed: If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

The above first aid instructions are mandated by the Commonwealth Department of Health and Aged Care via the National Drugs and Poison Schedule. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the CONCENTRATE have been swallowed (more than 50mL) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.

Eye: Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.

Skin: Wash affected areas thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

Inhaled: Remove to fresh air until recovered.

First Aid Facilities:

Advice to doctor: Treat symptomatically.

Aspiration of vomitus may lead to pulmonary pneumonitis, which may be serious, especially in young children.

Agricrop Pty Ltd.
ABN 100 84 473 309

2 of 5

Product: Agricrop AFFRAY 300 Herbicide
Issued: 03 February 2003



ABN 100 84 473 309

EMERGENCY TELEPHONE
(All Hours) 1800 033 111

MATERIAL SAFETY DATA SHEET

Toxicity Data:

2,4-D (2,4-dichlorophenoxyacetic acid)	
LD ₅₀ Oral (Rat):	699mg/kg
LD ₅₀ Dermal (Rabbit):	>2,000mg/kg
LC ₅₀ Inhalation (Rat):	>1.79mg/L (maximum attainable concentration)
Not toxic to bees	
LC ₅₀ (Rainbow trout):	~100mg/L
LC ₅₀ (Daphnia):	1.4mg/L
LC ₅₀ (Mallard Duck):	>5,000mg/kg diet

In trials using 2,4-D as a drug, studies on volunteers have shown that doses of between 5 and 36mg/kg body weight do not cause any acute toxic effects. Formulated 2,4-D products can be absorbed by ingestion, inhalation (spray mist) and through the skin. Studies of users (sprayers) have shown that absorption through the skin is the most common route. When used with good agricultural spraying practice and good personal hygiene, absorption of 2,4-D is very low. 2,4-D does not accumulate in the body; a single dose of 2,4-D is rapidly excreted (in a few days), mainly in the urine.

The Australian Acceptable Daily Intake (ADI) of 2,4-D for a human is 0.01mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.0mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, March 20002).

III PRECAUTIONS FOR USE

Exposure Standards:

No exposure limits have been set for this product, however, an exposure limit has been set for 2,4-D acid (solid) at 10mg/m³.

The manufacturer (Exxon) of the solvent (Solvesso 150) recommends an occupational exposure limit of 100mg/m³ (17ppm) TWA total hydrocarbon.

Engineering Controls:

Natural only although a local exhaust should be provided if material is handled in confined spaces.

Personal Protection:

Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray wear face shield. If product on skin, immediately wash area with soap and water. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face-shield and contaminated clothing.

Flammability:

Non flammable, combustible C1.

Environment:

Marine Pollutant

2,4-D products do not appear to pose any threat to birds

2,4-D products do not appear to pose any threat to fish other than in very high concentrations.

Do NOT spray in high winds. Do not contaminate dams, waterways or streams with this product or used containers. DO NOT use this container for any other purpose. After use, rinse out container thoroughly and dispose of safely in an approved manner.

Agricrop Pty Ltd.
ABN 100 84 473 309

3 of 5

Product: Agricrop AFFRAY 300 Herbicide
Issued: 03 February 2003



ABN 100 84 473 309

EMERGENCY TELEPHONE
(All Hours) 1800 033 111

MATERIAL SAFETY DATA SHEET

Equipment that has been used for this product should not be used for the application of other materials to sensitive plants, unless it has been well washed out with hot, soapy water or 1% ammonia solution, followed by several clear water rinses.

Do not use on or in situations where damage to susceptible crop plants such as cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop plants may result from direct application or spray drift.

IV SAFE HANDLING INFORMATION

Storage & Transport:

Storage:

Store in original container, tightly sealed, in a safe place away from seeds, fungicidal and insecticidal sprays or fertilisers so that cross contamination cannot occur.

Transport Details:

Considered non hazardous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packaging and Labelling:

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Not to be used for any purpose or in any manner contrary to the label unless authorised under appropriate legislation.

The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous:

Risk Phrases:

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R65 Harmful: may cause lung damage if swallowed.

Safety Phrases:

S2 Keep out of reach of children.

S23 Do not breathe vapour.

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37 Wear suitable protective clothing and gloves.

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Spills and disposals:

Contain spill and absorb with sand or proprietary absorbent (vermiculite).

Prevent from entering drains or waterways or sewers.

Collect in sealed open top containers for disposal.

Dispose of by industrial incineration or dumping at a site approved by local authorities.

Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in a landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

Agricrop Pty Ltd.
ABN 100 84 473 309

4 of 5

Product: Agricrop AFFRAY 300 Herbicide
Issued: 03 February 2003



ABN 100 84 473 309

EMERGENCY TELEPHONE
(All Hours) 1800 033 111

MATERIAL SAFETY DATA SHEET

Fire/Explosion Hazard:

Extinguishing Media: Water fog, dry chemical, foam, CO₂.

Special Fire Fighting Procedures: Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces. Keep upwind.

Unusual fire & Explosion Hazard: May emit toxic fumes of hydrogen chloride, phosgene and carbon monoxide if material is involved in fires or subjected to extreme heat.

Reactivity Data:

Store away from oxidising agents, may react violently with strong oxidising agents.
Polymerisation is not possible.

V OTHER INFORMATION

All due care and skill, so far as practicable, has been applied in the preparation and collation of the information in this MSDS.

Each user of the Product named in this MSDS should read and consider the information contained in this MSDS in the context of how the Product will be stored, handled, used or applied in the workplace. In all circumstances, it is the responsibility of the user of the Product to ensure that they have sought out the relevant safety data appropriate to their particular situation.

Nothing contained in this MSDS shall be construed as a representation or recommendation to the user about the suitability or otherwise of the Product named in this MSDS for the user's particular situation. If the user requires any clarification or further information, the user should contact Agricrop.

CONTACT POINT:

Agricrop Pty Ltd
1569 Wynnum Road
Tingalpa, Queensland 4173

Telephone: 07 3348 4113 - Facsimile: 07 3348 2702

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Please read all labels carefully before using product.

Agricrop Pty Ltd.
ABN 100 84 473 309

5 of 5

Product: Agricrop AFFRAY 300 Herbicide
Issued: 03 February 2003